

FIG. 1

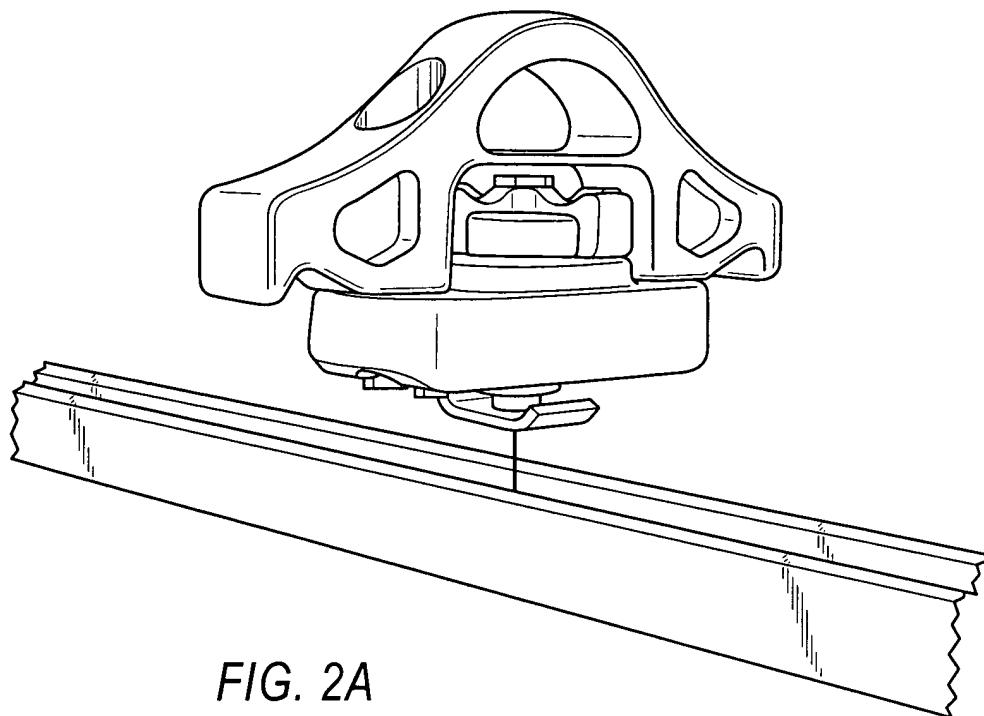


FIG. 2A

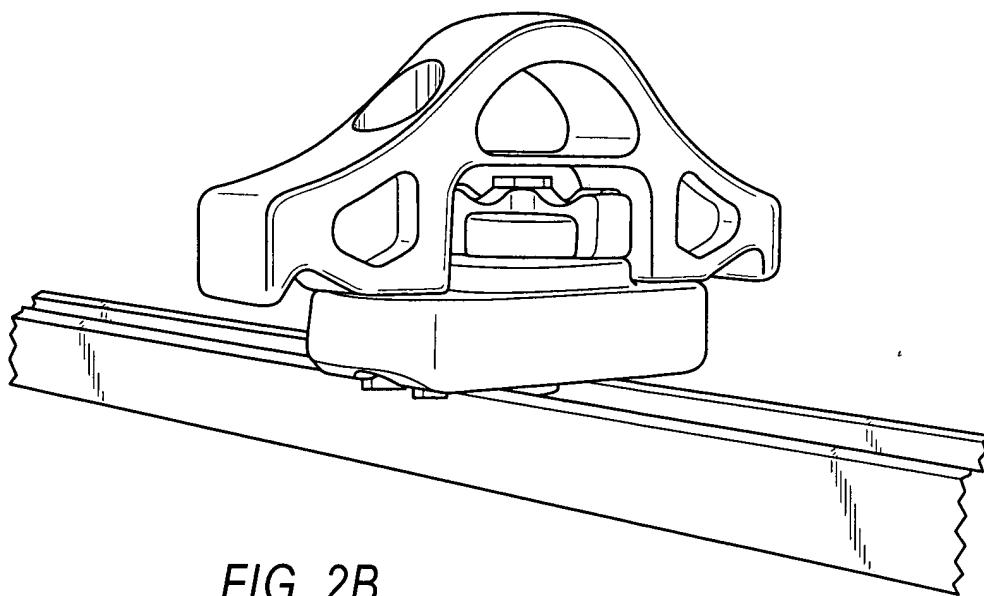


FIG. 2B

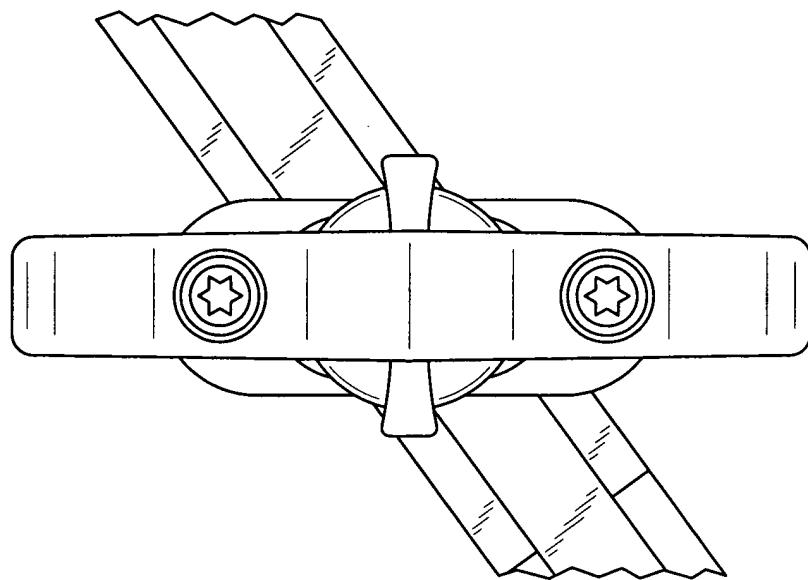


FIG. 2C

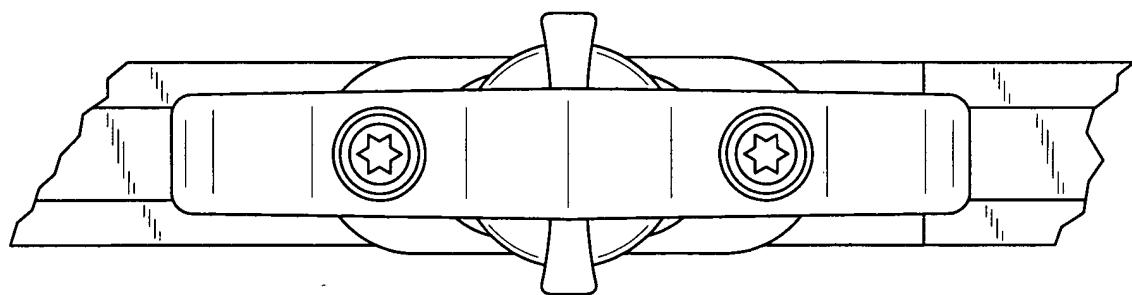


FIG. 2D

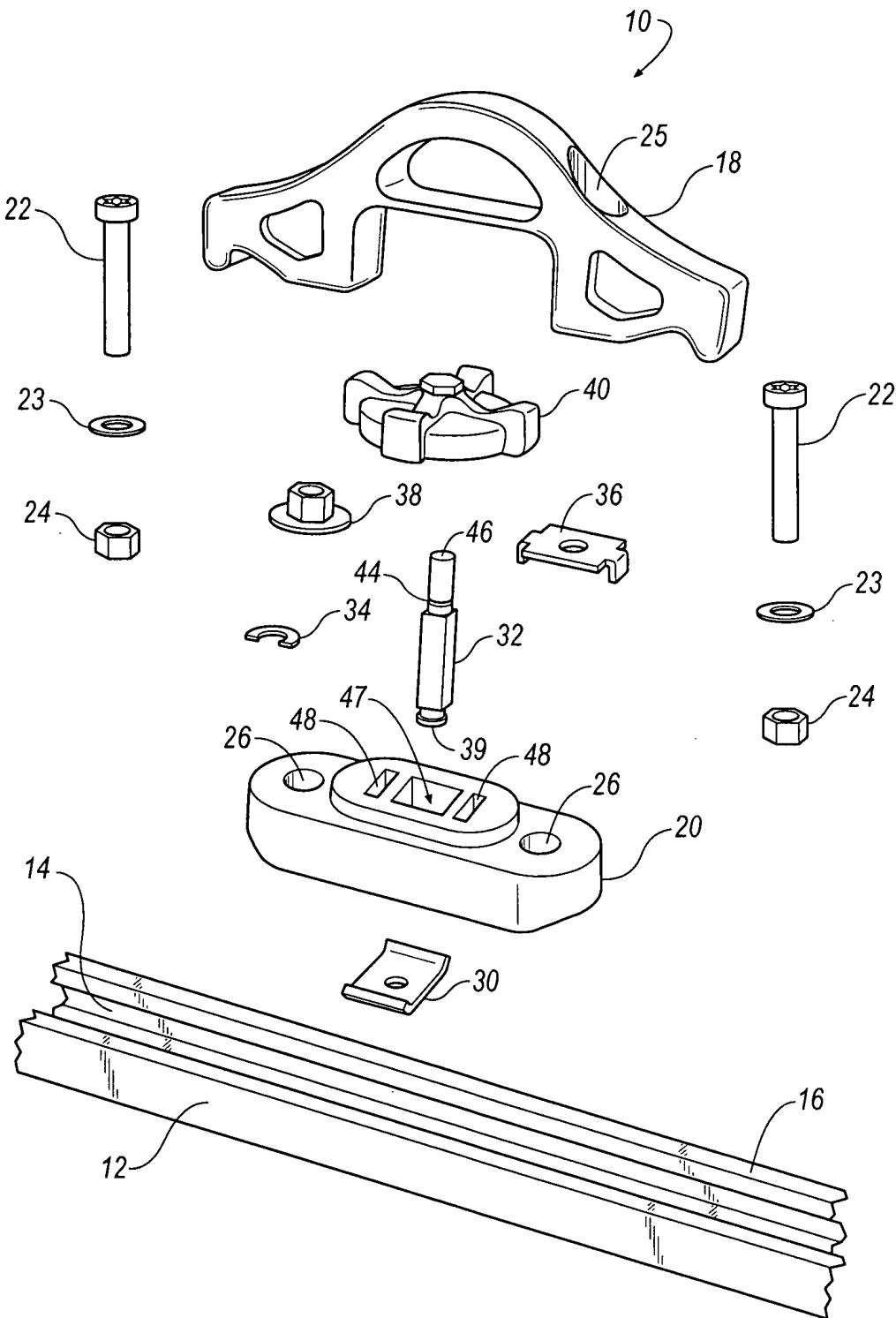


FIG. 3

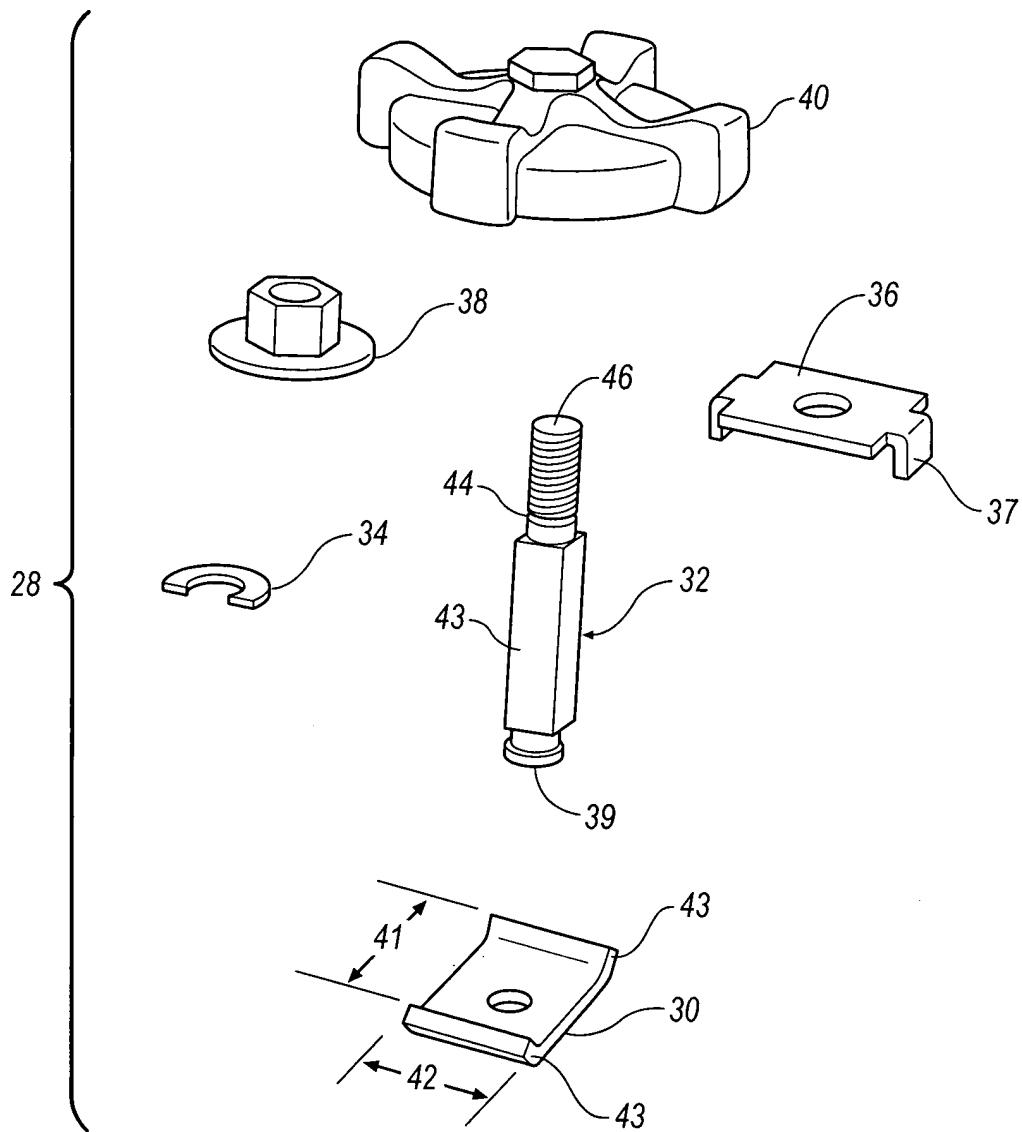


FIG. 4

| Label | Part Name      | Material                   | Yield Strength | Ultimate/Tensile Strength | Elongation          | Poisson's Ratio | E         |
|-------|----------------|----------------------------|----------------|---------------------------|---------------------|-----------------|-----------|
| 18    | Tie Down       | Aluminum A413              | 131 Mpa        | 290 Mpa                   | 3.5 (% in 2")       | 0.33            | 75.8 Gpa  |
| 40    | Thumb Wheel    | Aluminum A413              | 131 Mpa        | 290 Mpa                   | 3.5 (% in 2")       | 0.33            | 75.8 Gpa  |
| 20    | Base Plate     | Aluminum A413              | 131 Mpa        | 290 Mpa                   | 3.5 (% in 2")       | 0.33            | 75.8 Gpa  |
| 38    | Nut/Washer Asm | Nut - 1010 - 1020 Steel    | 303 Mpa        | 365 Mpa                   | 20 (% in 2")        | 0.29            | 203.3 Gpa |
|       |                | Washer - 1050 Spring Steel | 579 Mpa        | 689 Mpa                   | 12 (% in 2")        | 0.29            | 203.3 Gpa |
| 36    | Thrust Washer  | S.S. 302 - 304             | 276 Mpa        | 568 Mpa                   | 1.67 (frac. strain) | 0.28            | 189.6 Gpa |
| 32    | Pin            | S.S. 302 - 304             | 276 Mpa        | 568 Mpa                   | 1.67 (frac. strain) | 0.28            | 189.6 Gpa |
| 30    | Lock Plate     | S.S. 302 - 304             | 276 Mpa        | 568 Mpa                   | 1.67 (frac. strain) | 0.28            | 189.6 Gpa |
| 22    | Bolt - 8mm     | S.S. 302 - 304             | 276 Mpa        | 568 Mpa                   | 1.67 (frac. strain) | 0.28            | 189.6 Gpa |
| 23    | Washer - 8mm   | S.S. 302 - 304             | 276 Mpa        | 568 Mpa                   | 1.67 (frac. strain) | 0.28            | 189.6 Gpa |
| 24    | Nut - 8mm      | S.S. 302 - 304             | 276 Mpa        | 568 Mpa                   | 1.67 (frac. strain) | 0.28            | 189.6 Gpa |
| 34    | Retainer       |                            |                |                           |                     |                 |           |
| 12    | Bed Rail       | T6 - 6063 Anodized Al      | 213 Mpa        | 241 Mpa                   | 12 (% in 2")        | 0.35            | 70.3 Gpa  |

FIG. 5

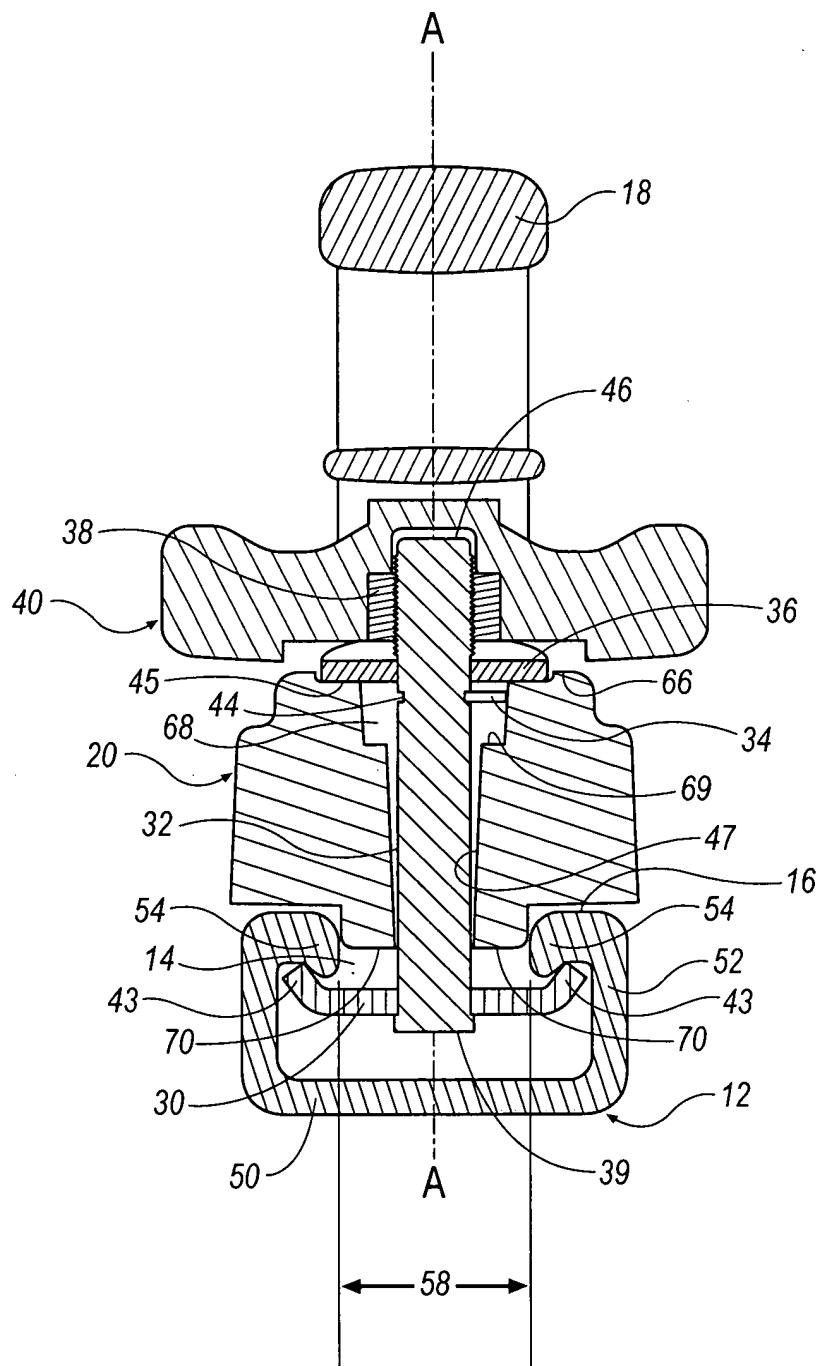


FIG. 6

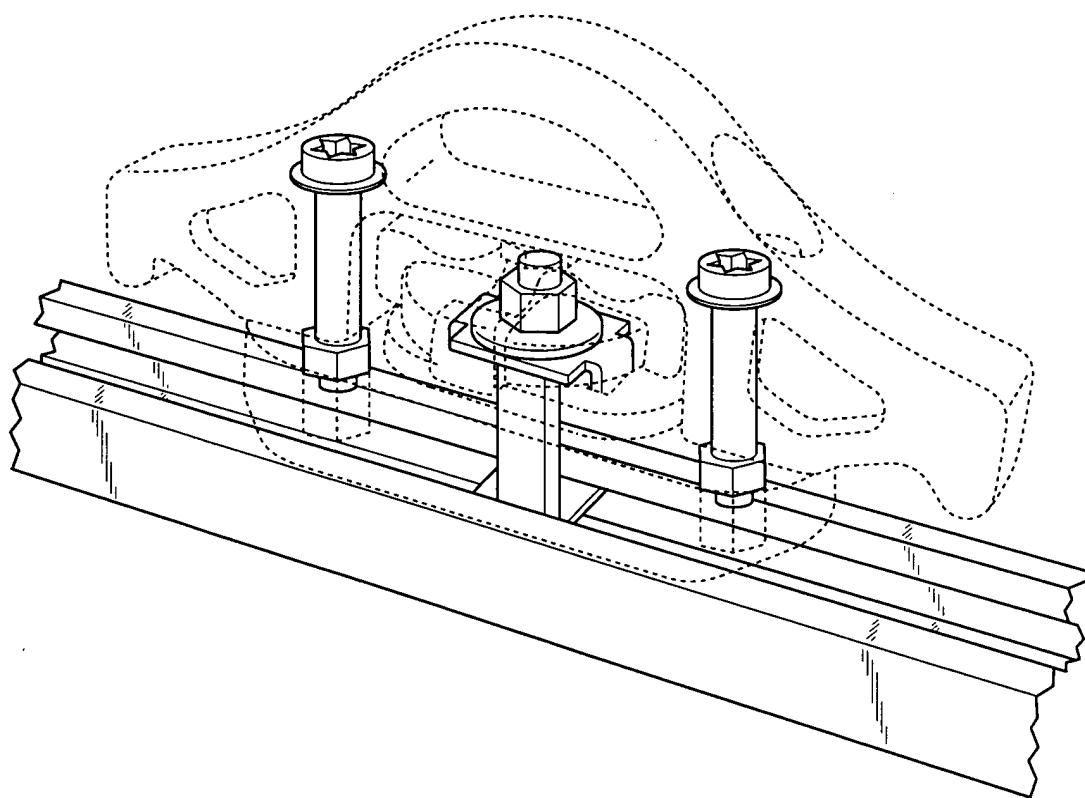


FIG. 7

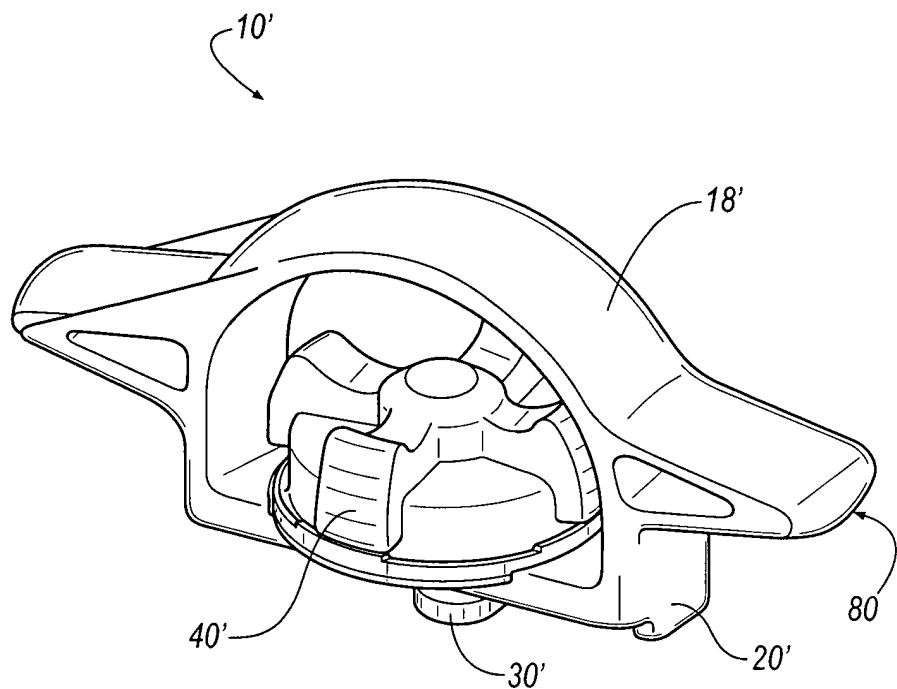


FIG. 8

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10/14

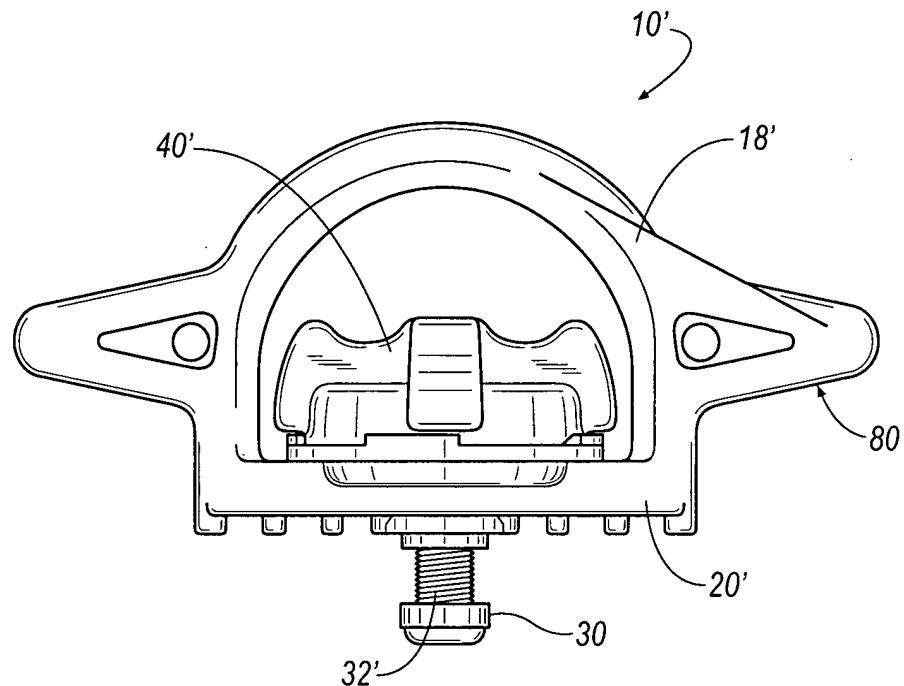


FIG. 9

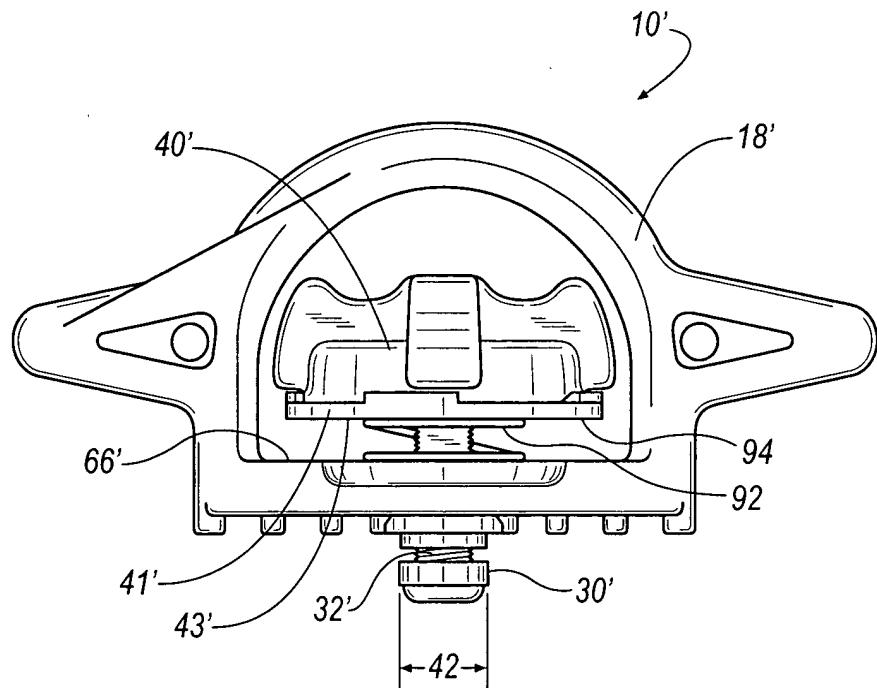


FIG. 10

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11/14

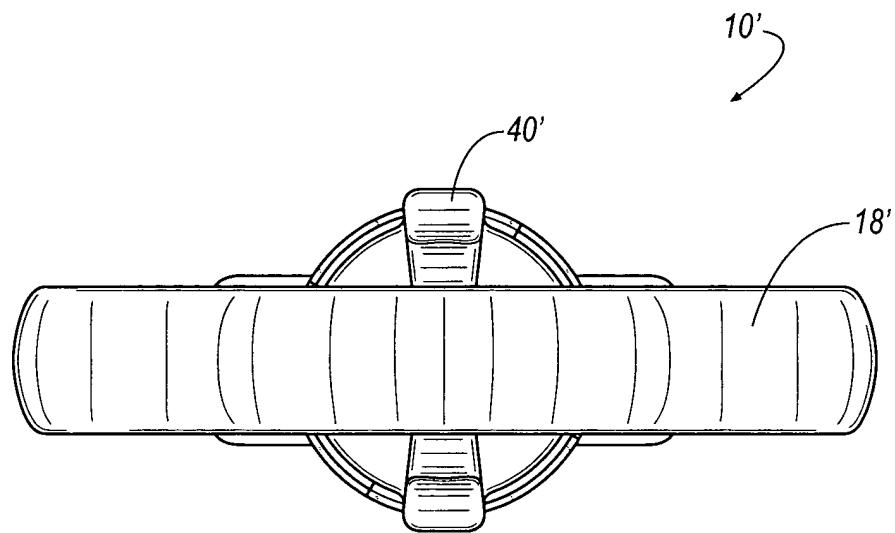


FIG. 11

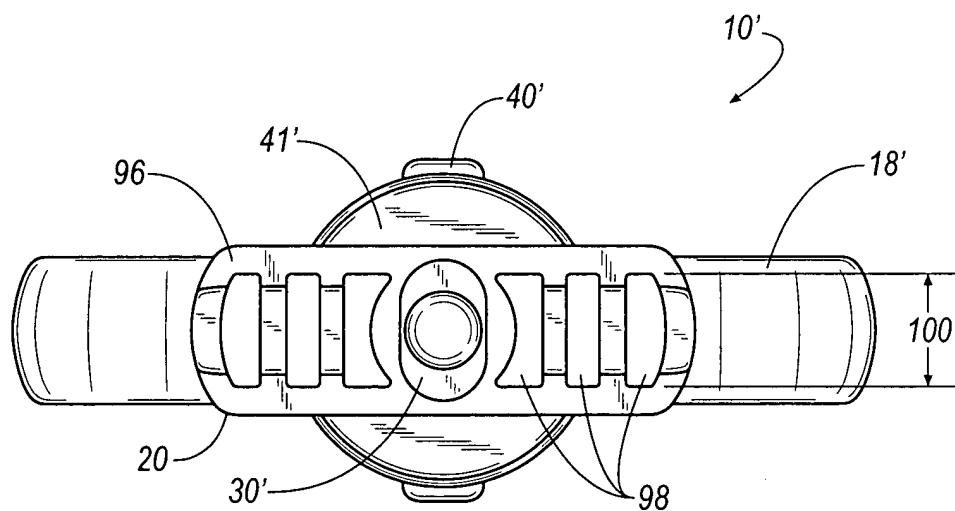


FIG. 12

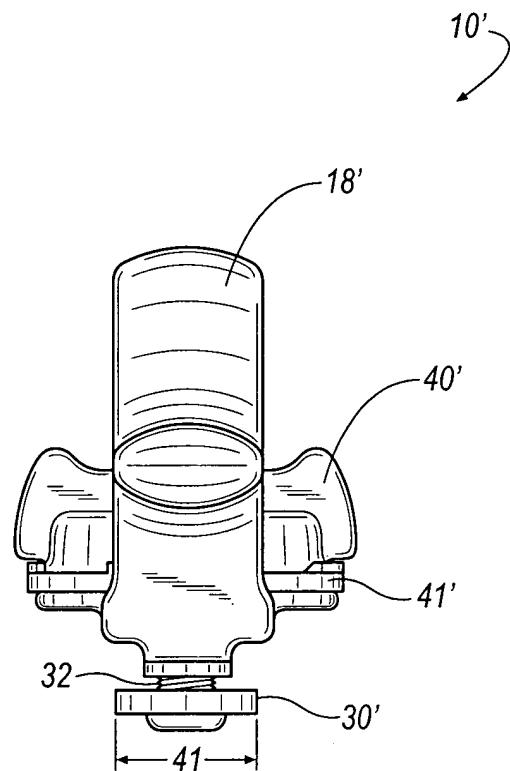


FIG. 13

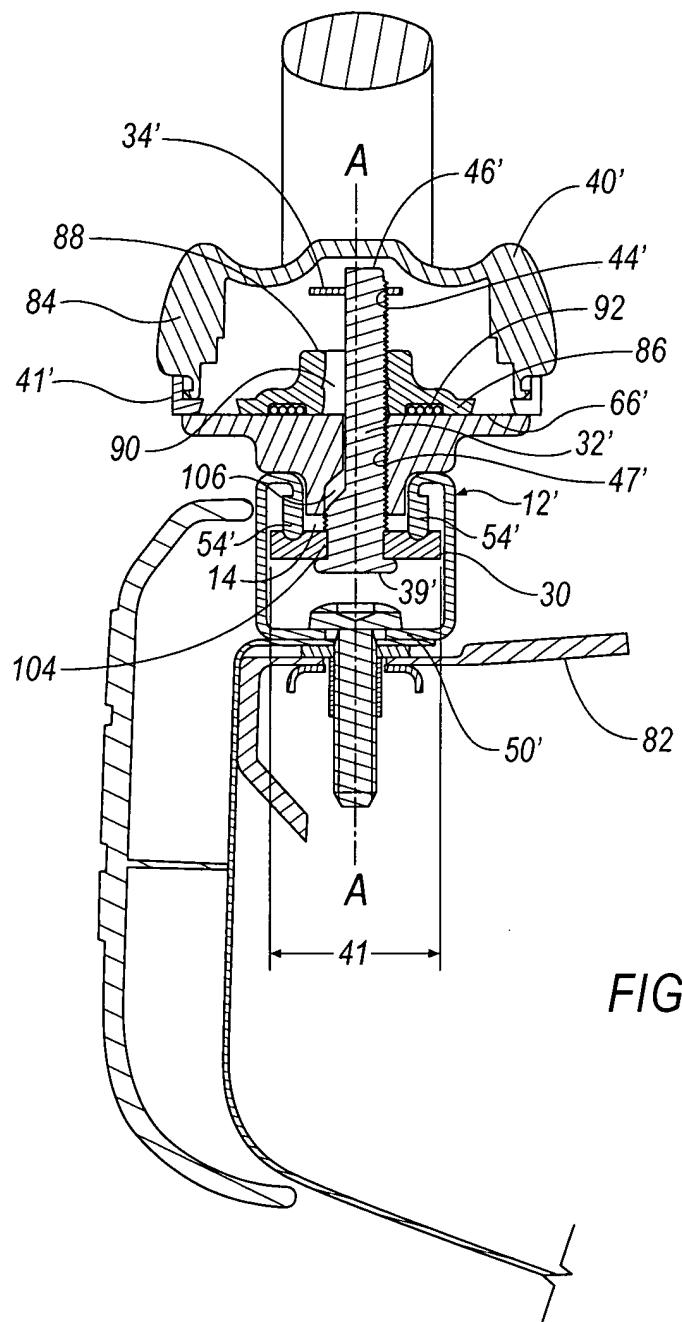


FIG. 14

